From: Brannen McElmurray
To: Rivera, Alex
Cc: George Hopkins; David Ackerman; Terence Sawick
Subject: Re: NFE | EPA | Follow-up
Date: Wednesday, June 16, 2021 8:19:05 AM

The LUMA point is a good one - we aren't sure but LUMA is aware and involved. Gary Sotos (now at LUMA) has been in the loop on it.

There is a final control cable connection to be made that does require both units to be out for 1 hour but otherwise no outage required.

(c) 1-646-371-7401
(o) 1-516-268-7413

> On Jun 16, 2021, at 8:15 AM, Rivera, Alex <Rivera.Alex@epa.gov> wrote:
>
> Hi Brannen:
>
> Thanks for providing this information. I forgot to ask you if PREPA San Juan Units 5 and 6 will need to be out of operation in order to complete the ATS connection. Also, is NFE also required to involve LUMA in the ATS approval process, or PREPA is the only party involve in this conversations?
>
> Thanks;
>
> Alex O. Rivera
> U.S. EPA Region 2
> Caribbean Environmental Protection Division
> Multimedia Permits and Compliance Branch
> Air Protection Team
> 787-977-5845
> rivera.alex@epa.gov
>
> ---
>
> **From:** Brannen McElmurray <bmcelmurray@newfortressenergy.com>
> **Sent:** Monday, June 14, 2021 6:43 PM
> **To:** Rivera, Alex <Rivera.Alex@epa.gov>
> **Cc:** George Hopkins <ghopkins@velaw.com>; David Ackerman <dackerman@newfortressenergy.com>; Terence Sawick <tsawick@newfortressenergy.com>
> **Subject:** NFE | EPA | Follow-up

Alex,

Thank you very much for your time this morning. Here is the follow-up from our call.

#1 – Disruptions

According to our records, there have been 13 events since January 1, 2021 where a loss of power or quality problem associated with the power received at the NFEnergia facility has caused our pumps to shut down. Typically, our pumps are not available to pump for only a matter of minutes. They can be repowered by our on-site emergency generators or the restoration of power by PREPA. As a result, they are back online almost immediately and prepared to pump natural gas.

On June 6, operator error during some work on the truck loading rack created a pressurization concern within our facility that led our control system to shut down our pumps serving PREPA. As with the shut downs due to power loss and power quality problems, our pumps were shut down for only a very short duration.

#2 – Context

Our facility was designed to pull power from a nearby substation on the PREPA grid. The PREPA grid is unreliable not just with "outages" where all power is lost but also "power blips" where power instantaneously drops for 1 to 4 seconds and then is restored. The latter situations are similar to where your lights might flicker. When these drops occur, our control system spins the LNG pumps down to address the potential safety implications associated with losses of power. Our control system and the PREPA control system are connected in certain respects. When the LNG pumps spin down on our system, the pressure also drops on the gas line. When the PREPA control system detects these events, the SJ 5/6 units switch automatically to ADO (diesel) to avoid disruptions in the power supply. Typically, our pumps are down for no more than 1 to 2 minutes. Our backup generators will supply power to run the pumps but need to ramp up when they detect the power problems. Once power to our pumps has been restored, that information is available to the PREPA control system. At that point, PREPA has the discretion to revert back to gas from diesel. The timing for that process can vary but usually takes a number of hours depending on PREPA's view of system constraints (peak load, reserve margin, etc.). We have capacitors installed in our system that allow the pumps to keep operating during both losses of power and declines in the quality of power for a short duration. We have also installed an automatic transfer switch that would allow the facility to receive power from the emergency bus bar within the San Juan Power Station. This ATS would instantaneously transfer from the grid connection to the emergency bus bar if it detected either a loss of power or a decline in the quality of the power being received from the grid. We believe that this system would prevent most of the events that NFEnergia has referenced above. As we explained, the ATS has been installed and the connection to the emergency bus bar is in place. In order to finalize this solution, PREPA would need to approve this connection and re-program a power-relay. We think that this could be

accomplished in half a day.

For the recent instance of operator error in connection with our truck-loading plant, we have taken steps to prevent a reoccurrence of pressurization events associated with the truck loading facility having any impact on the pumps serving PREPA 5/6 as well as other measures.

Appreciate the conversation. We are available to continue our discussion at your convenience.

Best regards,

Brannen

-----Original Appointment-----
From: David Ackerman <dackerman@newfortressenergy.com>
Sent: Friday, June 11, 2021 1:14 PM
To: David Ackerman; Rivera, Alex; Terence Sawick; Brannen McElmurray
Cc: George Hopkins
Subject: NewFortress Energy : EPA | Event Inquiry Call
When: Monday, June 14, 2021 9:30 AM-10:00 AM (UTC-05:00) Eastern Time (US & Canada).
Where: Microsoft Teams Meeting

Microsoft Teams meeting

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